

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Cogeneration Plant – Westlake Facility
Agency Interest No.: 1253
Basell USA Inc.
Westlake, Calcasieu Parish, Louisiana

I. Background

Basell USA Inc. - Westlake Facility, an existing facility began operation in 1959. Basell USA Inc. a polypropylene/polyethylene manufacturing facility currently operates three process units: Boilers, M-line, and Plant 5. Plant 5 comprises J and K- production lines. The three process units have separate Title V permits.

The boilers unit currently operates under Permit No. 2868-V0, issued on December 1, 2003. The boilers process unit represents the facility's utility area and services as the powerhouse for the site and also serves as a control device for all process vent gases from the manufacturing operations.

This is the Part 70 operating permit renewal/modification for the boilers unit. This permit renewal/modification allows Basell to construct a cogeneration plant which will replace the three existing steam boilers - to provide most of the site's steam and electricity needs and to service as a control device for all process vent gases from the manufacturing operations.

II. Origin

A permit application and Emission Inventory Questionnaire were submitted by Basell USA Inc. dated April 28, 2008 requesting a Part 70 operating permit renewal/modification.

III. Description

Basell proposes to install a cogeneration plant at the existing Westlake facility to generate steam and electricity for the plant's operational needs. Basell currently buys about 32 MW of electricity for the facility's needs. The primary goal of the cogeneration facility is to self-generate electricity and realize significant cost savings (7- 8 million dollars a year). Basell is also proposing to permanently decommission the three existing steam boilers (Emission Points 1-75, 2-75, and 3-75) since the steam demand will be met by the proposed cogeneration facility. The Cooling Tower (Emission Point 6-99) will also be removed from the facility since the Cogeneration Plant will utilize air-cooling systems.

The proposed cogeneration plant's new equipment will include two spark ignition reciprocating internal combustion engines (SI RICEs) (1-08 and 2-08; EQT0321 and EQT0322), two fire-tube package boilers (4-08 and 5-08; EQT0324 and EQT0325), and a turbine (3-08, EQT0323). Each of the two SI RICEs have a design power output rating of around 8 MW and the turbine has a design power output rating of around 14 MW, resulting in design total of 30 MW of the self-generated electricity. The cogeneration plant is expected to meet 96% of the facility's electricity needs. Basell intends to supplement the facility's electricity needs by purchasing approximately 4 MW of electricity from Entergy to fill any resulting shortage from the proposed operations.

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Basell's vent gas compressor, equipped with an electrical prime mover, compresses the off-gases from various process vents at Basell's Westlake facility and discharges the pressurized gas to the steam boilers. If the compressor fails, the gases are automatically sent to the vent gas flare stack. With the proposed construction of the Cogeneration Plant, the vent gas compressor is proposed to be operated in the same manners currently.

This permit also includes existing equipment – the Aeration Basin which is a wastewater source that was previously permitted as part of the Plant 4 process. The plant 4 was shutdown in March 2002.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	5.94	14.32	+ 8.38
SO ₂	0.40	1.59	+ 1.19
NO _x	199.00	147.34	- 51.66
CO	60.80	107.69	+ 46.89
VOC	5.62	40.88	+ 35.26

Chapter 51 Toxic Air Pollutants (TAPs):

<u>Pollutant</u>	<u>Permitted Limits (TPY)</u>
1,1,2,2 Tetrachloroethane	0.01
1,1,2-Trichloroethane	0.01
1,2,-Dibromoethane	0.01
1,3-Butadiene	0.04
1,3-Dichloropropene	< 0.01
2,2,4-Trimethylpentane	0.04
2-Methylnaphthalene	0.01
Acetaldehyde	1.37
Acrolein	0.82
Barium (and compounds)	< 0.01
Benzene	0.08
Biphenyl	0.03
Carbon tetrachloride	0.01
Chlorobenzene	< 0.01
Chloroform	< 0.01

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Chapter 51 Toxic Air Pollutants (TAPs):

<u>Pollutant</u>	<u>Permitted Limits (TPY)</u>
Dichloromethane	< 0.01
Ethyl benzene	0.03
Formaldehyde	8.93
Lead compounds	< 0.01
Methanol	0.42
Naphthalene	0.01
n-Hexane	0.35
Phenol	< 0.01
Polynuclear Aromatic Hydrocarbons	0.01
Propylene oxide	0.02
Styrene	< 0.01
Toluene	0.16
Vinyl Chloride	< 0.01
Xylene (mixed isomers)	0.07
Zinc (& compounds)	0.01
Total	12.44

Estimated actual emission increases due to the project in tons per year are as follows:

<u>Pollutant</u>	<u>Contemp.</u> <u>Increase</u>	<u>Project</u> <u>Increase</u>	<u>Net</u> <u>Change</u>	<u>PSD de</u> <u>minimis Level</u>	<u>PSD</u> <u>Required</u>
PM ₁₀	-	+ 14.31	+ 14.31	15	No
SO ₂	-	+ 1.59	+ 1.59	40	No
NO _x	- 115.0	+147.12	+ 32.12	40	No
CO	- 6.98	+ 106.41	+ 99.43	100	No
VOC	-	+ 35.75	+ 35.75	40	No
Lead compounds	-	+ < 0.01	+ < 0.01	0.6	No

After netting the Prevention of Significant Deterioration (PSD) review is not required for the modification of this permit.

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IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, and New Source Performance Standards (NSPS). National Emission Standards for Hazardous Air Pollutants (NESHAP) does not apply.

Emissions of criteria pollutants from the Cogeneration Project do not increase more than the PSD significance levels. PSD analysis is not required. However, PM₁₀, NO_x, CO, and VOC emissions increases are more than 50 % of their respective significance levels, then there is a reasonable possibility that the project will result in a significant emissions increase. Pre-project and post-project monitoring, record keeping, and reporting are required.

This facility is a minor source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 2008; and in the <local paper>, <local town>, on <date>, 2008. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

VII. Effects on Ambient Air

Emissions associated with the proposed modification were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions.

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Dispersion Model(s) Used: <None>

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS})

VIII. General Condition XVII Activities

Work Activity	Schedule	<u>Emission Rates – tons per year</u>				
		PM ₁₀	SO ₂	NO _x	CO	VOC
A – Double Block & Bleed Valve Venting						< 0.01
B- Piping System Venting						< 0.01
C – Vent Gas Flaring		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

IX. Insignificant Activities

ID No.:	Description	Citation
456	PH-1 Diesel Storage Tank	LAC 33:III.501.B.5.A.3.
457	PH-2 Diesel Storage Tank	LAC 33:III.501.B.5.A.3.
458	PH-3 Diesel Storage Tank	LAC 33:III.501.B.5.A.3.
459	PH-4 Diesel Storage Tank	LAC 33:III.501.B.5.A.3.
460	M-1043 Lube Oil Storage Tank	LAC 33:III.501.B.5.A.3.
T905	Lube Oil Storage Tank	LAC 33:III.501.B.5.A.3.
T906	Lube Oil Storage Tank	LAC 33:III.501.B.5.A.3.

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements		LAC 33:III.Chapter																			
		5 [▲]	509	9	11	13	15	2103	2111	2113	2115	2122	2153	22	29*	51*	53*	56	59*		
ID No.:	Description																				
UNF0001	Plant Wide	1		1	1	1				1						1	2		1	1	
EQT0321	1-08 - Reciprocating Internal Combustion Engine-1			1	1	3															
EQT0322	2-08 - Reciprocating Internal Combustion Engine-2			1	1	3															
EQT0323	3-08 - Turbine			1	1	3															
EQT0324	4-08 - Fire Tube Boiler 1			1	1	3															
EQT0325	5-08 - Fire Tube Boiler 2			1	1	3															
EQT0326	449 - A-1340 Vent Gas Flare Stack			1	1	3				3											
EQT0327	465 - Aeration Basin												2								
EQT0328	MSS-VGCD - Maintenance/Startup/Shutdown			1	1	3				3											
EQT0329	MSS-BET - Maintenance for Boilers, Engines, & Turbines																				
FUG0003	Fugitive Emissions															1					

* The regulations indicated above are State Only regulations.
 ▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS										40 CFR 61				40 CFR 63 NESHAP				40 CFR	
		A	Dc	Ka	Kb	VV	VVa	DD	JJJ	KKK	A	M	V	A	HH	SS	YYYY	ZZZZ	64	68	
UNF0001	Plant Wide	1				1	1														1
EQT0321	1-08 - Reciprocating Internal Combustion Engine-1						1	1									1				2
EQT0322	2-08 - Reciprocating Internal Combustion Engine-2						1	1									1				2
EQT0323	3-08 - Turbine									1						3					2
EQT0324	4-08 - Fire Tube Boiler 1		1				1														2
EQT0325	5-08 - Fire Tube Boiler 2		1				3														2
EQT0326	449 - A-1340 Vent Gas Flare Stack						1														2
EQT0327	465 - Aeration Basin																				
EQT0328	MSS-VGCD - Maintenance/Startup/Shutdown									1											2
EQT0329	MSS-BET - Maintenance for Boilers, Engines, & Turbines																				
FUG0003	Fugitive Emissions					1	1	1													3

KEY TO MATRIX

- 1 - The regulations have applicable requirements that apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank - The regulations clearly do not apply to this type of emission source.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Requirement	Notes
UNF0003 Cogeneration Plant	LAC 33: III. Chapter 51 Comprehensive Toxic Air Pollutant Emissions Control Program 40 CFR 72 Acid Rain Program	EXEMPT. Basell is not a major source for TAPs. EXEMPT. The Cogeneration Plant is not for the purpose of supplying electric output to any utility power distribution system for sale. 40 CFR 72.6(b)(4)(i)
EQT0323 3-08 - Turbine	40 CFR 63 NESHAP Subpart YYYYY - National Emissions Standards for Hazardous Air Pollutants for Stationary Combustion Turbines	DOES NOT APPLY. The Basell Westlake facility is not a major source of HAPs. 40 CFR 63.6085
EQT0321 & EQT0322 1-08 and 2-08 Engines 1 & 2; EQT0323 3-08 Turbine; EQT0324 & EQT0325 4-08 & 5-08 Fire Tube Boilers 1 & 2	LAC 33: III. Chapter 15 40 CFR 64.2 Compliance Assurance Monitoring	DOES NOT APPLY. Facility emits less than five tons per year of SO ₂ . LAC 33:III.1502.A.3 EXEMPT. Subject to an emission limitation or standard proposed by the administration after November 15, 1990 pursuant to Section 111 or 112 of the Act. 40 CFR 64.2(b)(i)
EQT0325 5-08 Fire Tube Boiler 2	40 CFR Subpart DDD - Standards of Performance for Volatile Organic Compound Emissions from the Polymer Manufacturing Industry	DOES NOT APPLY. This boiler is not used as a control device for vent streams subject to NSPS Subpart DDD.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Requirement	Notes
EQT0326 449 - A-1340 Vent Gas Flare Stack; EQT0328 MSS-VGCD	LAC 33: III. Chapter 15 Waste Gas Disposal [LAC 33:III.2115] 40 CFR 64.2 Compliance Assurance Monitoring	DOES NOT APPLY. Facility emits less than five tons per year of SO ₂ . LAC 33:III.1502.A.3. DOES NOT APPLY. Process gaseous streams that are used as primary fuels are not considered waste gas streams. LAC 33:III.2115.M. EXEMPT. Subject to an emission limitation or standard for which a part 70 or 71 permit specifies a continuous compliance determination method. 40 CFR 64.2(b)(iv)
EQT0327 465-Aeration Basin	Limiting VOC Emissions from Industrial Wastewater LAC 33:III.2153	EXEMPT. The Cogeneration facility does not meet the definition of Affected source category. (Basell is located at Calcasieu parish and having a potential to emit of less than 50 TPY of VOC). LAC 33:III.2153.A
FUG0003 Fugitives	40 CFR 64.2 Compliance Assurance Monitoring	DOES NOT APPLY. This emission source does not utilize a control device. 40 CFR 64.2(a)(2)

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

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- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
 2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
 3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and

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4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
 2. the date(s) analyses were performed;
 3. the company or entity that performed the analyses;
 4. the analytical techniques or methods used;
 5. the results of such analyses; and
 6. the operating conditions as existing at the time of sampling or measurement.
- [Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an

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emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]

- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
 5. changes in emissions would not qualify as a significant modification; and
 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a

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written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:

- a. Report by June 30 to cover January through March
- b. Report by September 30 to cover April through June
- c. Report by December 31 to cover July through September
- d. Report by March 31 to cover October through December

4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]

- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]

- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:

1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]

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- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated April 28, 2008.
- IV. This permit shall become invalid, for the sources not constructed, if:
- A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.
- The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.
- This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 - C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
 1. Report by June 30 to cover January through March
 2. Report by September 30 to cover April through June
 3. Report by December 31 to cover July through September
 4. Report by March 31 to cover October through December

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
 2. Cause of noncompliance;
 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
 - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
 - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
 - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services in accordance with LAC 33:I.Chapter 19.Facility Name and Ownership/Operator Changes Process.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
 2. Be less than the minimum emission rate (MER)
 3. Be scheduled daily, weekly, monthly, etc., or
 4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of the permit may be appealed to the secretary in writing pursuant to La. R.S. 30:2024(A) within 30 days from notice of the permit action. A request may be made to the secretary to suspend those provisions of the permit specifically appealed. The permit remains in effect to the extent that the secretary or assistant secretary does not elect to suspend the appealed provisions as requested or, at his discretion, other permit provisions as well. Construction cannot proceed, except as specifically approved by the secretary or assistant secretary, until a final decision has been rendered on the appeal. A request for hearing must be sent to the Office of the Secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

- XIX. For Part 70 sources, certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

General Information

AI ID: 1253 Basell USA Inc - Westlake Facility
Activity Number: PER20080002
Permit Number: 2868-V1
Air - Title V Regular Permit Renewal

ID	Name	User Group	Start Date
0520-00006	Basell USA Inc - Westlake Facility	CDS Number	02-10-1976
51-0272089	Federal Tax ID	Federal Tax ID	11-21-1999
LAD008080541	Basell USA Inc Lake Charles	Hazardous Waste Notification	07-01-2003
00424	Hercules	Inactive & Abandoned Sites	11-01-1979
LA0003689	LPDES #	LPDES Permit #	06-25-2003
WP0062	LWDPS #	LWDPS Permit #	06-25-2003
LA-2663-L01	Priority 1 Emergency Site	Priority 1 Emergency Site	07-18-2006
G-019-1634	Radioactive Material License	Radiation License Number	10-30-2000
34766	Site ID #	Solid Waste Facility No.	07-24-2001
3636	Montell USA Inc	TEMPO Merge	04-22-2001
70602HMNTSLAHWY	Himont USA Inc	TEMPO Merge	04-22-2001
1093	TRI #	Toxic Release Inventory	07-09-2004
10004846	UST Case History Case Number	UST Case Number	11-21-1999
	UST Facility ID (from UST legacy data)	UST FID #	10-11-2002

Physical Location: 4101 Hwy 108
 Westlake, LA 70669
Main FAX: 3374397397
Main Phone: 3378821651

Name	Mailing Address	Phone (Type)	Relationship
PO Box 1687	Lake Charles, LA 706021687		
Joe Bush	PO Box 1687 Lake Charles, LA 706021687	3378821651 Ext 746	Emission Inventory Contact for
Joe Bush	PO Box 1687 Lake Charles, LA 706021687	joe.bush@lyondellba	Emission Inventory Contact for
Dan Charlson	PO Box 1687 Lake Charles, LA 706021687	3184397385 (WV)	Underground Storage Tank Contact for
Mark Doyle	PO Box 1687 Lake Charles, LA 706021687	3378821651 ext 746	Employed by
Mark Doyle	PO Box 1687 Lake Charles, LA 706021687	3374397392 (WF)	Employed by
Mark Doyle	PO Box 1687 Lake Charles, LA 706021687	MARK.DOYLE@BA:	Employed by
Mark Doyle	PO Box 1687 Lake Charles, LA 706021687	MARK.DOYLE@BA:	Air Permit Contact For
Mark Doyle	PO Box 1687 Lake Charles, LA 706021687	3374397392 (WF)	Air Permit Contact For
Mark Doyle	PO Box 1687 Lake Charles, LA 706021687	3378821651 ext 746	Air Permit Contact For
Mark Doyle	PO Box 1687 Lake Charles, LA 706021687	3378821651 ext 746	Hazardous Waste Permit Contact For
Mark Doyle	PO Box 1687 Lake Charles, LA 706021687	MARK.DOYLE@BA:	Accident Prevention Billing Party for
Mark Doyle	PO Box 1687 Lake Charles, LA 706021687	3374397392 (WF)	Accident Prevention Billing Party for
Mark Doyle	PO Box 1687 Lake Charles, LA 706021687	3378821651 ext 746	Accident Prevention Billing Party for
Mark Doyle	PO Box 1687 Lake Charles, LA 706021687	MARK.DOYLE@BA:	Accident Prevention Contact for
Mark Doyle	PO Box 1687 Lake Charles, LA 706021687	3374397392 (WF)	Accident Prevention Contact for

General Information

AI ID: 1253 Basell USA Inc - Westlake Facility
Activity Number: PER20080002
Permit Number: 2868-V1
Air - Title V Regular Permit Renewal

Related People:	Name	Mailing Address	Phone (Type)	Relationship
	Mark Doyle	PO Box 1687 Lake Charles, LA 706021687	3378821651 ext 746	Accident Prevention Contact for
	Mark Doyle	PO Box 1687 Lake Charles, LA 706021687	MARK.DOYLE@BA:	Hazardous Waste Permit Contact For
	Mark Doyle	PO Box 1687 Lake Charles, LA 706021687	3374397392 (WF)	Hazardous Waste Permit Contact For
	Larry Maynard	PO Box 1687 Lake Charles, LA 706021687	3378821651 (WP)	Responsible Official for
	Randy Ogea	PO Box 1687 Lake Charles, LA 706021687	3374397369 (WP)	Radiation Safety Officer for
	Randy Ogea	PO Box 1687 Lake Charles, LA 706021687	3377941033 (CP)	Radiation Safety Officer for
	Randy Ogea	PO Box 1687 Lake Charles, LA 706021687	randy.ogea@basell.c	Radiation Safety Officer for
	Randy Ogea	PO Box 1687 Lake Charles, LA 706021687	3374397397 (WF)	Radiation Safety Officer for
	Marlin Tickner	PO Box 1687 Lake Charles, LA 70602		Water Billing Party for

Related Organizations:	Name	Address	Phone (Type)	Relationship
	Basell USA Inc	PO Box 1687 Lake Charles, LA 706021687		Owns
	Basell USA Inc	PO Box 1687 Lake Charles, LA 706021687		Operates
	Basell USA Inc	PO Box 1687 Lake Charles, LA 706021687		Air Billing Party for
	Basell USA Inc	PO Box 1687 Lake Charles, LA 706021687		UST Billing Party for
	Basell USA Inc	PO Box 1687 Lake Charles, LA 706021687		Radiation License Billing Party for
	Basell USA Inc	PO Box 1687 Lake Charles, LA 706021687		Emission Inventory Billing Party

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

INVENTORIES
AI ID: 1253 - Basell USA Inc - Westlake Facility
Activity Number: PER20080002
Permit Number: 2868-V1
Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Cogeneration Plant						
EQT0321	1-08 - Reciprocating Internal Combustion Engine-1		133.6 MM BTU/hr	129.48 MM BTU/hr		8448 hr/yr (All Year)
EQT0322	2-08 - Reciprocating Internal Combustion Engine-2		133.6 MM BTU/hr	129.48 MM BTU/hr		8448 hr/yr (All Year)
EQT0323	3-08 - Turbine		159.62 MM BTU/hr	159.62 MM BTU/hr		8496 hr/yr (All Year)
EQT0324	4-08 - Fire Tube Boiler 1		63 MM BTU/hr	25.05 MM BTU/hr		8520 hr/yr (All Year)
EQT0325	5-08 - Fire Tube Boiler 2		63 MM BTU/hr	15.92 MM BTU/hr		216 hr/yr (All Year)
EQT0326	449 - A-1340 Vent Gas Flare Stack		.31 MM BTU/hr	.31 MM BTU/hr		8760 hr/yr (All Year)
EQT0327	465 - Aeration Basin		1.5 million gallons/day	1 million gallons/day		8760 hr/yr (All Year)
EQT0328	MSS-VGCD - Maintenance for Compressor		19375 scf/hr	19375 scf/hr		240 hr/yr (All Year)
EQT0329	MSS-BET - Maintenance for Boilers, Engines, & Turbines					8760 hr/yr (All Year)
FUG0003	FB - Fugitives					8760 hr/yr (All Year)

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
Cogeneration Plant							
EQT0321	1-08 - Reciprocating Internal Combustion Engine-1	61.53	37581	3.6		40	392
EQT0322	2-08 - Reciprocating Internal Combustion Engine-2	61.53	37581	3.6		40	392
EQT0323	3-08 - Turbine	77.67	130000	5.96		40	350
EQT0324	4-08 - Fire Tube Boiler 1	55.6	21000	2.83		40	425
EQT0325	5-08 - Fire Tube Boiler 2	55.6	21000	2.83		40	425
EQT0326	449 - A-1340 Vent Gas Flare Stack			.5		50	
EQT0327	465 - Aeration Basin				60544	0	
GRP0010	ENG-CAP - CAP for Engines 1-08 & 2-08	61.53	37581	3.6		40	392

Relationships:

Subject Item Groups:	Group Type	Group Description
CRG0005	Common Requirements Group	CRG0005 - Flare & Vent Gas Compressor Downtime
GRP0010	Equipment Group	ENG-CAP - CAP for Engines 1-08 & 2-08
UNF0003	Unit or Facility Wide	UNF0001 - Cogeneration Plant

Group Membership:

ID	Description	Member of Groups
EQT0321	1-08 - Reciprocating Internal Combustion Engine-1	GRP00000000010
EQT0322	2-08 - Reciprocating Internal Combustion Engine-2	GRP00000000010
EQT0326	449 - A-1340 Vent Gas Flare Stack	CRG00000000005
EQT0328	MSS-VGCD - Maintenance for Compressor	CRG00000000005

INVENTORIES

AI ID: 1253 - Basell USA Inc - Westlake Facility
 Activity Number: PER20090002
 Permit Number: 2868-V1
 Air - Title V Regular Permit Renewal

Group Membership:

ID	Description	Member of Groups
	NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group	

Annual Maintenance Fee:

Fee Number	Co-Generation (Capital Cost)	Air Contaminant Source	Multiplier	Units Of Measure
1510			405.5	\$100,000

SIC Codes:

4939	Combination utilities, nec	UNF003
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EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1253 - Basell USA Inc - Westlake Facility
 Activity Number: PER20080002
 Permit Number: 2868-V1
 Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
Cogeneration Plant															
EQT 0321 1-08		99.34			49.67			0.72						24.83	
EQT 0322 2-08		99.34			49.67			0.72						24.83	
EQT 0323 3-08	17.04	17.04	72.37	8.40	13.99	35.67	1.58	1.58	6.71	0.22	9.58	0.93	1.15	1.15	4.87
EQT 0324 4-08	0.18	0.45	0.77	1.77	4.45	7.54	0.38	0.96	1.62	0.002	0.01	0.01	0.07	0.17	0.29
EQT 0325 5-08	0.06	0.23	0.01	0.56	2.22	0.06	0.12	0.48	0.01	0.02	0.08	<0.01	0.02	0.08	<0.01
EQT 0326 449	0.11	0.11	0.50	0.02	0.02	0.09	0.002	0.002	0.01	<0.001	<0.001	<0.01	0.002	0.002	0.01
EQT 0327 465													0.67	0.98	2.93
EQT 0328 MSS-VGCD	15.74	15.74	1.89	2.89	2.89	0.35	0.32	0.32	0.04	0.03	0.03	<0.01	25.67	25.67	3.08
EQT 0329 MSS-BET	990.02	990.02	1.19	94.11	94.11	0.21	6.70	6.70	0.01	14.57	14.57	<0.01	47.24	47.24	0.10
FUG 0003 F8													1.37		6.02
GRP 0010 ENG-CAP	7.33		30.96	24.48		103.42	1.40		5.92	0.15		0.64	5.58		23.58

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1253 - Basell USA Inc - Westlake Facility

Activity Number: PER20080002

Permit Number: 2868-V1

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0321 1-08	1,1,2,2-Tetrachloroethane		0.001	
	1,1,2-Trichloroethane		0.001	
	1,2-Dibromoethane		0.002	
	1,3-Butadiene		0.01	
	1,3-Dichloropropene		0.001	
	2,2,4-Trimethylpentane		0.01	
	2-Methylnaphthalene		0.001	
	Acetaldehyde		0.30	
	Acrolein		0.18	
	Benzene		0.02	
	Biphenyl		0.01	
	Carbon tetrachloride		0.001	
	Chlorobenzene		0.001	
	Chloroform		0.001	
	Dichloromethane		0.001	
	Ethyl benzene		0.001	
	Formaldehyde		1.87	
	Methanol		0.09	
	Naphthalene		0.003	
	Phenol		0.001	
	Polynuclear Aromatic Hydrocarbons		0.001	
	Styrene		0.001	
	Toluene		0.01	
Vinyl chloride		0.001		
Xylene (mixed isomers)		0.01		
n-Hexane		0.04		
EQT 0322 2-08	1,1,2,2-Tetrachloroethane		0.001	
	1,1,2-Trichloroethane		0.001	
	1,2-Dibromoethane		0.002	
	1,3-Butadiene		0.01	
	1,3-Dichloropropene		0.001	
	2,2,4-Trimethylpentane		0.01	
	2-Methylnaphthalene		0.001	
	Acetaldehyde		0.30	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1253 - Basell USA Inc - Westlake Facility

Activity Number: PER20080002

Permit Number: 2868-V1

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0322 2-08	Acrolein		0.18	
	Benzene		0.02	
	Biphenyl		0.01	
	Carbon tetrachloride		0.001	
	Chlorobenzene		0.001	
	Chloroform		0.001	
	Dichloromethane		0.001	
	Ethyl benzene		0.001	
	Formaldehyde		1.87	
	Methanol		0.09	
	Naphthalene		0.003	
	Phenol		0.001	
	Polynuclear Aromatic Hydrocarbons		0.001	
	Styrene		0.001	
	Toluene		0.01	
	Vinyl chloride		0.001	
Xylene (mixed isomers)		0.01		
n-Hexane		0.04		
EQT 0323 3-08	Acetaldehyde	0.01	0.02	0.03
	Acrolein	0.001	0.001	0.004
	Benzene	0.002	0.002	0.01
	Ethyl benzene	0.01	0.01	0.02
	Formaldehyde	0.11	0.23	0.48
	Naphthalene	< 0.001	< 0.001	< 0.01
	Polynuclear Aromatic Hydrocarbons	< 0.001	< 0.001	0.001
	Propylene oxide	0.005	0.005	0.02
	Toluene	0.02	0.02	0.09
	Xylene (mixed isomers)	0.01	0.01	0.04
EQT 0324 4-08	Barium (and compounds)	< 0.001	0.001	0.001
	Formaldehyde	0.002	0.004	0.01
	Lead compounds	< 0.001	< 0.001	< 0.01
	Zinc (and compounds)	0.001	0.004	0.01
	n-Hexane	0.04	0.10	0.17
EQT 0325 5-08	Lead compounds	< 0.001	< 0.001	< 0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1253 - Basell USA Inc - Westlake Facility

Activity Number: PER20080002

Permit Number: 2868-V1

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0325 5-08	n-Hexane	0.01	0.05	< 0.01
EQT 0327 435	Methanol	0.01	0.01	0.02
EQT 0329 N5S-BET	Lead compounds	< 0.001	< 0.001	< 0.01
GIRP 0010 ENG-CAP	1,1,2,2-Tetrachloroethane	0.002		0.01
	1,1,2-Trichloroethane	0.001		0.01
	1,2-Dibromoethane	0.002		0.01
	1,3-Butadiene	0.001		0.04
	1,3-Dichloropropene	0.001		< 0.01
	2,2,4-Trimethylpentane	0.01		0.04
	2-Methylnaphthalene	0.001		0.01
	Acetaldehyde	0.32		1.34
	Acrolein	0.19		0.82
	Benzene	0.02		0.07
	Biphenyl	0.01		0.03
	Carbon tetrachloride	0.001		0.01
	Chlorobenzene	0.001		0.005
	Chloroform	0.001		< 0.01
	Dichloromethane	0.001		< 0.01
	Ethyl benzene	0.002		0.01
	Formaldehyde	2.00		8.44
	Methanol	0.09		0.40
	Naphthalene	0.003		0.01
	Phenol	0.001		< 0.01
	Polynuclear Aromatic Hydrocarbons	0.002		0.01
	Styrene	0.001		< 0.01
	Toluene	0.02		0.07
Vinyl chloride	0.001		< 0.01	
Xylene (mixed isomers)	0.01		0.03	
n-Hexane	0.04		0.18	
UNF 0003 UNF0001	1,1,2,2-Tetrachloroethane			0.01
	1,1,2-Trichloroethane			0.01
	1,2-Dibromoethane			0.01
	1,3-Butadiene			0.04
	1,3-Dichloropropene			< 0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1253 - Basell USA Inc - Westlake Facility

Activity Number: PER20080002

Permit Number: 2868-V1

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
UNF 0003 UNF0001	2,2,4-Trimethylpentane			0.04
	2-Methylnaphthalene			0.01
	Acetaldehyde			1.37
	Acrolein			0.82
	Barium (and compounds)			< 0.01
	Benzene			0.08
	Biphenyl			0.03
	Carbon tetrachloride			0.01
	Chlorobenzene			< 0.01
	Chloroform			< 0.01
	Dichloromethane			< 0.01
	Ethyl benzene			0.03
	Formaldehyde			8.93
	Lead compounds			< 0.01
	Methanol			0.42
	Naphthalene			0.01
	Phenol			< 0.01
	Polynuclear Aromatic Hydrocarbons			0.01
	Styrene			< 0.01
	Toluene			0.16
Vinyl chloride			< 0.01	
Xylene (mixed isomers)			0.07	
Zinc (and compounds)			0.01	
n-Hexane			0.35	

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

SPECIFIC REQUIREMENTS

AI ID: 1253 - Basell USA Inc - Westlake Facility

Activity Number: PER20080002

Permit Number: 2868-V1

Air - Title V Regular Permit Renewal

EQ10323 Turbine

- 1 [40 CFR 60.4320]
- 2 [40 CFR 60.4330(a)(1) and (2)]
Meet the NOx emission limit of 25 ppm at 1.5% O2 or 150 mg/J of useful output (1.2 lb/MWh) as specified in Table 1 of this subpart. Comply with SO2 emission limits as specified. Do not burn in the subject stationary combustion turbine any fuel which contains total potential sulfur emissions in excess of 26 ng SO2/J (0.060 lb SO2/MM BTU) heat input. If the turbine simultaneously fires multiple fuels, each fuel must meet this requirement. [40 CFR 60.4330(a)(1) and (2)]
- 3 [40 CFR 60.4333(a)]
Operate and maintain the stationary combustion turbine, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction. [40 CFR 60.4333(a)]
- 4 [40 CFR 60.4333(b)]
If the turbines use a heat recovery unit with a common steam header with one or more turbine, demonstrate compliance with the applicable NOx emission limits by measuring the combined emissions of the combustion turbine(s) utilizing the common heat recovery unit; or develop, demonstrate and provide a method of apportioning the combined gross energy output from the heat recovery unit for each of the turbines. Approval of such a substitute would depend on satisfactory demonstration of accurate estimation of emissions related under this part. [40 CFR 60.4333(b)]
- 5 [40 CFR 60.4340(a)]
Perform annual performance tests in accordance with 40 CFR 60.4400 to demonstrate continuous compliance with the applicable NOx emission limit. If the NOx emission result is less than 75% of the NOx emission limit for the turbine, the frequency of the testing may be reduced to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent testing exceeds 75% of the NOx emission limit for the turbine, resume annual performance tests. [40 CFR 60.4340(a)]
- 6 [40 CFR 60.4360.4365]
Ensure that the fuel does not exceed potential sulfur emissions of 26 ng SO2/J (0.06 lb SO2/MM BTU) heat input. Use one of the following sources of information to make the required demonstration: maintain records of the fuel quality characteristic in a current, valid purchase contract, tariff sheet, or transportation contract for the fuel, specifying that the total sulfur content for natural gas use in continental areas is 20 grains of sulfur/100 ft3, and has potential sulfur emissions of less than 26 ng SO2/J (0.060 lb SO2/MM BTU).
- 7 [40 CFR 60.4375(b)]
Submit a written report of each performance test before the close of business on the 60th day following completion of the performance test. [40 CFR 60.4375(b)]
- 8 [40 CFR 60.4400(a)]
Conduct an initial performance test as required by 40 CFR 60.8 for NOx. Subsequent NOx performance tests shall be conducted on an annual basis (no more than 14 calendar months following the previous performance test). Use one of the two methodologies to conduct the NOx performance tests listed in 40 CFR 60.4400. [40 CFR 60.4400(a)]
- 9 [40 CFR 60.KKKK]
- 10 [LAC 33:III.1101.B]
Comply with all applicable recordkeeping requirements of this subpart.
- 11 [LAC 33:III.1311.C]
Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: None specified
Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: Six-minute average

EQ10324 Fire Tube Boiler 1

- 12 [40 CFR 60.48c(g)(1)]
The owner or operator of each affected facility shall record and maintain records of the amount of each fuel combusted during each operating day. [40 CFR 60.48c(g)(1)]

SPECIFIC REQUIREMENTS

AI ID: 1253 - Basell USA Inc - Westlake Facility
Activity Number: PER20080002
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Air - Title V Regular Permit Renewal

EQI0324 Fire Tube Boiler 1

- 13 [40 CFR 60.48c(i)] All records required under this section shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record. [40 CFR 60.48c(i)]
- 14 [40 CFR 60.48c] Comply with the applicable reporting requirements of 40 CFR 60.48(c).
- 15 [40 CFR 60.562-1(a)(1)(i)(B)] Combust the emissions in a boiler or process heater with a design heat input capacity of 150 million Btu/hour or greater by introducing the vent stream into the flame zone of the boiler or process heater. A boiler or process heater of lesser design heat capacity may be used, but must demonstrate compliance with 40 CFR 60.(a)(1)(i)(A). Subpart DDD. [40 CFR 60.562-1(a)(1)(i)(B)]
- 16 [40 CFR 60.562-1(a)(2)(ii)] Combust the intermittent emissions in the flame zone of an incinerator, boiler or process heater. Subpart DDD. [40 CFR 60.562-1(a)(2)(ii)]
- 17 [40 CFR 60.562-1(d)] Closed Vent System: Operate all closed vent systems and control devices at all times when emissions may be vented to them. Subpart DDD. [40 CFR 60.562-1(d)]
- 18 [40 CFR 60.562-1(e)] Vent System: Ensure that valves that could divert a vent stream from a control device have car-sealed open all valves in the vent system from the emission source to the control device and car-sealed closed all valves in the vent system that would lead the vent stream to the atmosphere, either directly or indirectly, bypassing the control device. Subpart DDD. [40 CFR 60.562-1(e)]
- 19 [40 CFR 60.563(c)] Monitor control devices to ensure that they are operated and maintained in conformance with their designs. Subpart DDD. [40 CFR 60.563(c)]
- 20 [40 CFR 60.563(d)(1)] Vent System: Flow indication monitored by flow indicator once every 15 minutes. Install a flow indicator immediately downstream of each valve that if opened would allow a vent stream to bypass the control device and be emitted, either directly or indirectly, to the atmosphere. Ensure that the flow indicator is capable of recording flow at least once every fifteen minutes. Subpart DDD. [40 CFR 60.563(d)(1)]
- 21 [40 CFR 60.563(d)(2)] Which Months: All Year Statistical Basis: None specified
 Vent System: Seal or closure mechanism monitored by visual inspection/determination monthly. Monitor the valves once a month, checking the position of the valves and the condition of the car seal, and identify all times when the car seals have been broken and the valve position has been changed (i.e., from opened to closed for valves in the vent piping to the control device and from closed to open for valves that allow the stream to be vented directly or indirectly to the atmosphere). Subpart DDD. [40 CFR 60.563(d)(2)]
- 22 [40 CFR 60.563] Which Months: All Year Statistical Basis: None specified
 Temperature monitored by temperature monitoring device continuously. Install a temperature monitoring device between the radiant section and the convection zone for watertube boilers and between the furnace (combustion zone) and the firetubes for firetube boilers. Monitor the operating temperature with a device accurate to within 1 percent (relative to degrees Celsius) or +/- 0.5 degree C (+/- 0.9 degree F), whichever is greater. Subpart DDD.
- 23 [40 CFR 60.564(a)(1)] Which Months: All Year Statistical Basis: None specified
 Conduct a performance test, whenever changes are made in production capacity, feedstock type or catalyst type, or whenever there is replacement, removal, or addition of a control device, in order to determine compliance with 40 CFR 60.562-1. Subpart DDD. [40 CFR 60.564(a)(1)]
- 24 [40 CFR 60.564(a)] Use the test methods in appendix A or other methods and procedures specified in 40 CFR 60.564, except as provided under 40 CFR 60.8(b) to conduct performance tests required in 40 CFR 60.8. Subpart DDD. [40 CFR 60.564(a)]
- 25 [40 CFR 60.565(b)(1)] Submit an engineering report describing in detail the vent system used to vent each affected vent stream to a control device. Include in this report all valves and vent pipes that could vent the stream to the atmosphere, thereby bypassing the control device, and identify which valves are car-sealed opened and which valves are car-sealed closed. Submit the report either with the initial performance test or, if complying with 40 CFR 60.562-1(a)(1)(D), as a separate report. Subpart DDD. [40 CFR 60.565(b)(1)]

SPECIFIC REQUIREMENTS

AJ ID: 1253 - Basell USA Inc - Westlake Facility

Activity Number: PER20080002

Permit Number: 2868-V1

Air - Title V Regular Permit Renewal

EQT0324 Fire Tube Boiler 1

- 26 [40 CFR 60.565(k)]
 Submit reports: Due semiannually: Submit the initial report within 6 months after the initial start-up date. Include the applicable information listed in 40 CFR 60.565(k)(1) through (7) to the DEQ if complying with the requirements of this subpart by complying with the uncontrolled threshold emission rate cutoff provision of 40 CFR 60.560 (d) and (e), the individual stream exemptions of 40 CFR 60.560(g), or the requirements of 40 CFR 60.562-1. Subpart DDD. [40 CFR 60.565(k)]
- 27 [40 CFR 60.565(l)]
 Submit Notification: Inform the DEQ with the specific provisions of 40 CFR 60.562, 40 CFR 60.560(d) or 40 CFR 60.560(e), as applicable with which the facility operator has elected to comply. Submit the notification with the notification of initial start-up required in 40 CFR 60.7(a)(3). Notify the DEQ 90 days before implementing any change in the provision of 40 CFR 60.562 that the operator elects to comply with, or becomes subject to 40 CFR 60.562 for the first time. Conduct the performance test specified by 40 CFR 60.564 upon implementing a change. Subpart DDD. [40 CFR 60.565(l)]
- 28 [40 CFR 60.565]
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain up-to-date, readily-accessible records of the required information listed in 40 CFR 60.565(a) through (j) for at least two years. Subpart DDD.
- 29 [LAC 33:III.1101.B]
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 30 [LAC 33:III.1313.C]
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input.
 Which Months: All Year Statistical Basis: None specified

EQT0325 Fire Tube Boiler 2

- 31 [40 CFR 60.48c(g)(1)]
 The owner or operator of each affected facility shall record and maintain records of the amount of each fuel combusted during each operating day. [40 CFR 60.48c(g)(1)]
- 32 [40 CFR 60.48c(i)]
 All records required under this section shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record. [40 CFR 60.48c(i)]
- 33 [40 CFR 60.48c]
 Comply with the applicable reporting requirements of 40 CFR 60.48(c).
- 34 [LAC 33:III.1101.B]
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 35 [LAC 33:III.1313.C]
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input.
 Which Months: All Year Statistical Basis: None specified

GRP0010 Cap for Engines 1-08 and 2-08

Group Members: EQT0321 EQT0322

- 36 [40 CFR 60.4233(c)]
 Stationary SI ICE with a maximum engine power greater than or equal to 100 HP must comply with the emissions standards of Table 1 of this Subpart. [40 CFR 60.4233(c)]

SPECIFIC REQUIREMENTS

AI ID: 1253 - Basell USA Inc - Westlake Facility

Activity Number: PER20080002

Permit Number: 2868-V1

Air - Title V Regular Permit Renewal

GRP0010 Cap for Engines 1-08 and 2-08

- 37 [40 CFR 60.4234] Operate and maintain the stationary SI ICE so as to achieve the emission standards as per 40 CFR 60.4233 over the entire life of the engine.
- 38 [40 CFR 60.4243(b)(2)(ii)] If you are the owner or operator of a non-certified stationary SI ICE greater than 500 HP, you must keep a maintenance plan and records of conducted maintenance and must to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test and conduct subsequent testing every 8760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance. [40 CFR 60.4243(b)(2)(ii)]
- 39 [40 CFR 60.4243(b)] Comply with emission standards specified in 40 CFR 60.4233(d) or (e), you must demonstrate compliance according to one of the methods specified in paragraph (b)(1) and (2) of this section. [40 CFR 60.4243(b)]
- 40 [40 CFR 60.4244(a)-(f)] Owners and operators of stationary SI ICE who conduct performance tests must follow the procedures in paragraphs (a) through (f) of 40 CFR 4244. [40 CFR 60.4244(a)-(f)]
- 41 [40 CFR 60.4245(a)] Meet the notification reporting and recordkeeping requirements in 40 CFR 60.4245(a)(1)(2)(3) & (4). [40 CFR 60.4245(a)]
- 42 [40 CFR 60.4245(c)] Stationary SI ICE greater than or equal to 500 HP that have not been certified by an engine manufacturer to meet the emission standards in 40 CFR 60.4231 must submit an initial notification as required in 40 CFR 60.7(a)(1). This notification must include: (1) Name and address of the owner or operator (2) The address of the affected source (3) Engine information including maker, model, engine family, serial number, model year, maximum engine power, and engine displacement (4) Emission control equipment (5) Fuel used. [40 CFR 60.4245(c)]
- 43 [40 CFR 60.4245(d)] Stationary SI ICE that are subject to performance testing must submit a copy of each performance test as conducted in 40 CFR 60.4244 within 60 days after that test has been completed. [40 CFR 60.4245(d)]
- 44 [40 CFR 60.562-1(a)(1)(i)(A)] Total Organic Compounds (less methane and ethane) >= 98 % reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv on a dry basis, whichever is less stringent. The TOC is expressed as the sum of the actual compounds, not the carbon equivalents. If electing to comply with the 20 ppmv standard, include a correction to 3 percent oxygen only when supplemental combustion air is used to combust the vent. Subpart DDD. [40 CFR 60.562-1(a)(1)(i)(A)]
- 45 [40 CFR 60.562-1(a)(1)] Which Months: All Year Statistical Basis: None specified Use the procedures identified in 40 CFR 60.562-1(a)(1)(ii) and (iii) to determine which continuous emissions, from an affected facility as defined in 40 CFR 60.560(a)(1), are to be controlled and which level of control listed in 40 CFR 60.(a)(1)(i) is to be met. Subpart DDD. [40 CFR 60.562-1(a)(1)]
- 46 [40 CFR 60.564(a)(1)] Conduct a performance test, whenever changes are made in production capacity, feedstock type or catalyst type, or whenever there is replacement, removal, or addition of a control device, in order to determine compliance with 40 CFR 60.562-1. Subpart DDD. [40 CFR 60.564(a)(1)]
- 47 [40 CFR 60.564(a)] Use the test methods in appendix A or other methods and procedures specified in 40 CFR 60.564, except as provided under 40 CFR 60.8(b) to conduct performance tests required in 40 CFR 60.8. Subpart DDD. [40 CFR 60.564(a)]
- 48 [40 CFR 60.565(k)] Submit reports: Due semiannually: Submit the initial report within 6 months after the initial start-up date. Include the applicable information listed in 40 CFR 60.565(k)(1) through (7) to the DEQ if complying with the requirements of this subpart by complying with the uncontrolled threshold emission rate cutoff provision of 40 CFR 60.560 (d) and (e), the individual stream exemptions of 40 CFR 60.560(g), or the requirements of 40 CFR 60.562-1. Subpart DDD. [40 CFR 60.565(k)]

SPECIFIC REQUIREMENTS

AI ID: 1253 - BaseII USA Inc - Westlake Facility
Activity Number: PER20080002
Permit Number: 2868-V1
Air - Title V Regular Permit Renewal

GRP0010 Cap for Engines 1-08 and 2-08

- 49 [40 CFR 60.565(j)] Submit Notification: Inform the DEQ with the specific provisions of 40 CFR 60.562, 40 CFR 60.560(d) or 40 CFR 60.560(e), as applicable with which the facility operator has elected to comply. Submit the notification with the notification of initial start-up required in 40 CFR 60.7(a)(3). Notify the DEQ 90 days before implementing any change in the provision of 40 CFR 60.562 that the operator elects to comply with, or becomes subject to 40 CFR 60.562 for the first time. Conduct the performance test specified by 40 CFR 60.564 upon implementing a change. Subpart DDD. [40 CFR 60.565(l)]
- 50 [40 CFR 60.565] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain up-to-date, readily-accessible records of the required information listed in 40 CFR 60.565(a) through (j) for at least two years. Subpart DDD.
- 51 [40 CFR 60.Subpart (JJJJ)] If subject to performing testing, comply with applicable requirements of 40 CFR 60.8. [40 CFR 60.Subpart (JJJJ)]
- 52 [40 CFR 63.ZZZZ] Compliance with 40 CFR 63 Subpart ZZZZ will be demonstrated by Compliance with 40 CFR 60 Subpart JJJJ for area sources of HAPs.
- 53 [LAC 33:III.101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 54 [LAC 33:III.131.C] Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 55 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: Six-minute average
 Equipment/operational data monitored by technically sound method continuously.
- 56 [LAC 33:III.507.H.1.a] Which Months: All Year Statistical Basis: None specified
 Carbon monoxide <= 24.48 tons/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if CO emission exceeds the maximum listed in this specific condition for any twelve consecutive month period.
- 57 [LAC 33:III.507.H.1.a] Which Months: All Year Statistical Basis: Twelve-consecutive-month maximum
 Equipment/operational data recordkeeping by electronic or hard copy monthly. Keep records of the total VOC, NOx, SO2, CO, and PM10 emissions each month, as well as the total VOC, NOx, SO2, CO, and PM10 emissions for the last twelve months. Make records available for inspection by DEQ personnel.
- 58 [LAC 33:III.507.H.1.a] Nitrogen oxides <= 103.42 tons/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if NOx emission exceeds the maximum listed in this specific condition for any twelve consecutive month period.
- 59 [LAC 33:III.507.H.1.a] Which Months: All Year Statistical Basis: Twelve-consecutive-month maximum
 Particulate matter (10 microns or less) <= 5.92 tons/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if PM10 emission exceeds the maximum listed in this specific condition for any twelve consecutive month period.
- 60 [LAC 33:III.507.H.1.a] Which Months: All Year Statistical Basis: Twelve-consecutive-month maximum
 Submit report: Due annually, by the 31st of March. Report the total VOC, NOx, SO2, CO, and PM10 emissions for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.

SPECIFIC REQUIREMENTS

AI ID: 1253 - Basell USA Inc - Westlake Facility

Activity Number: PER20080002

Permit Number: 2868-V1

Air - Title V Regular Permit Renewal

GRP0010 Cap for Engines 1-08 and 2-08

- 61 [LAC 33:III.507.H.1.a] Sulfur dioxide <= 0.64 tons/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if SO2 emission exceeds the maximum listed in this specific condition for any twelve consecutive month period.
Which Months: All Year Statistical Basis: Twelve-consecutive-month maximum
- 62 [LAC 33:III.507.H.1.a] VOC, Total <= 23.58 tons/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if total VOC exceeds the maximum listed in this specific condition for any twelve consecutive month period.
Which Months: All Year Statistical Basis: Twelve-consecutive-month maximum

CRG0005 EQT0326 Flare & EQT0328 Maintenance for Compressor

Group Members: EQT0326 EQT0328

- 63 [LAC 33:III.1105] Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.
Which Months: All Year Statistical Basis: None specified
- 64 [LAC 33:III.1105] Submit notification: Due to SPOC as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:1.3923. Notification is required only if the upset cannot be controlled in six hours.
- 65 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: Six-minute average

UNF0003 Cogeneration Plant

- 66 [40 CFR 60.480a] Comply with all applicable provisions of 40 CFR 60 Subpart VVa.
- 67 [40 CFR 60.562-2(a)] Comply with all applicable provisions of 40 CFR 60 Subpart VV as referenced by 40 CFR 60 Subpart DDD. [40 CFR 60.562-2(a)]
- 68 [40 CFR 60] All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.
- 69 [40 CFR 61.145(b)(1)] Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. Subpart M. [40 CFR 61.145(b)(1)]
- 70 [40 CFR 61.148] Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M.
- 71 [40 CFR 61.] All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.
- 72 [40 CFR 70.5(a)(1)(iii)] Submit Title V permit application for renewal: Due 6 months before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 73 [40 CFR 70.6(a)(3)(iii)(A)] Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]

SPECIFIC REQUIREMENTS

AJ ID: 1253 - Basell USA Inc - Westlake Facility

Activity Number: PER20080002

Permit Number: 2868-V1

Air - Title V Regular Permit Renewal

UNF0003 Cogeneration Plant

- 74 [40 CFR 70.6(a)(3)(iii)(B)]
 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. [40 CFR 70.6(a)(3)(iii)(B)]
- 75 [40 CFR 70.6(c)(5)(iv)]
 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
- 76 [40 CFR 82.Subpart F]
 Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.
- 77 [LAC 33:III.1103]
 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.
- 78 [LAC 33:III.1109.B]
 Outdoor burning of waste material or other combustible material is prohibited.
- 79 [LAC 33:III.1303.B]
 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- 80 [LAC 33:III.2113.A]
 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- 81 [LAC 33:III.219]
 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- 82 [LAC 33:III.2901.D]
 Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.
- 83 [LAC 33:III.2901.F]
 If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.
- 84 [LAC 33:III.501.C.1]
 Submit permit application: Due prior to construction, reconstruction or modification unless otherwise provided in LAC 33:III.Chapter 5. Submit a timely and complete permit application to the Office of Environmental Services as required in accordance with the procedures in LAC 33:III.Chapter 5.
- 85 [LAC 33:III.507.E.4]
 Any permit application to renew an existing permit shall be submitted at least six months prior to the date of permit expiration, or at such earlier time as may be required by the existing permit or approved by the permitting authority. In no event shall the application for permit renewal be submitted more than 18 months before the date of permit expiration.
- 86 [LAC 33:III.507.G.5]
 Alternate Operating Scenario: Operating plan recordkeeping by logbook upon each occurrence of making a change from one operating scenario to another. Record the operating scenario under which the facility is currently operating. Include in this record the identity of the sources involved, the permit number under which the scenario is included, and the date of change. Keep a copy of the log on site for at least two years.

SPECIFIC REQUIREMENTS

AI ID: 1253 - Basell USA Inc - Westlake Facility
Activity Number: PER20080002
Permit Number: 2868-V1
Air - Title V Regular Permit Renewal

UNF0003 Cogeneration Plant

- 87 [LAC 33:III.509.R.6] Before beginning actual construction of the Cogeneration Project as described, permittee shall document and maintain a record of the following information: 1) a description of the project; 2) the emissions units whose emissions of a regulated pollutant could be affected by the project; and 3) a description of the applicability test used to determine that the project is not a major modification for any regulated pollutant, including the baseline actual emissions, the projected actual emissions, the amount of emissions excluded from the projected actual emissions (the demand growth exclusion) and an explanation for why such amount was excluded, and any netting calculations, if applicable.
- 88 [LAC 33:III.509.R.6] Permittee shall monitor PM10, NOX, CO, and VOC emissions from the project and calculate and maintain a record of the annual emissions, in TPY on a calendar year basis, for a period of 10 years following resumption of regular operations.
- 89 [LAC 33:III.509.R.6] Permittee shall submit a report to LDEQ within 60 days after the end of the year if annual PM10, NOX, CO, and VOC emissions, in TPY, from the project in question exceed the baseline actual emissions by a "significant" (as defined in LAC 33:III.509.B) amount, and if such emissions differ from the preconstruction projection. This report shall contain the following: 1) the name, address, and telephone number of the major stationary source; 2) the annual emissions; and 3) any other information that the owner or operator wishes to include in the report (e.g., an explanation as to why the emissions differ from the preconstruction projection).
- 90 [LAC 33:III.511] Submit notification: Due to the permitting authority prior to the initiation of any project which will result in emission reductions. Include in the notification a description of the proposed action, a location map, a description of the composition of air contaminants involved, the rate and temperature of the emissions, the identity of the sources involved and the change in emissions. Make any appropriate permit revision reflecting the emission reduction no later than 180 days after commencement of operation and in accordance with the procedures of LAC 33:II. Chapter 5. An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity.
- 92 [LAC 33:III.517.A.1] Submit permit application: Due prior to commencement of construction, reconstruction, or modification of the source, for new or modified sources. Do not commence construction, reconstruction, or modification of any source required to be permitted under LAC 33:III. Chapter 5 prior to approval by the permitting authority.
- 93 [LAC 33:III.517.A.2] Submit permit application: Due by the date established for submittal in accordance with LAC 33:III.507.C. The permit application is for an initial permit to be issued in accordance with LAC 33:III.507. Provide a copy of each permit application pertaining to a major Part 70 source to EPA at the time of application submittal to the permitting authority.
- 94 [LAC 33:III.517.A.3] Submit permit application: Due by the date established by the permitting authority. The permit application is for any source for which grandfathered status has expired due to a change in ownership.
- 95 [LAC 33:III.517.B.1] Any application form, report, or compliance certification submitted under this Chapter shall contain certification by a responsible official of truth, accuracy, and completeness. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information contained in the application are true, accurate, and complete.
- 96 [LAC 33:III.517.C] Submit supplementary facts or corrected information: Due promptly upon becoming aware of failure to submit or incorrect submittal regarding permit applications. In addition, provide information as necessary to address any requirements that become applicable to the source after the date of filing a complete application but prior to release of a proposed permit.
- 97 [LAC 33:III.517.D] Submit applications for permits in accordance with forms and guidance provided by the DEQ. At a minimum, each permit application submitted under LAC 33:III. Chapter 5 shall contain the information specified in LAC 33:III.517.D, subparagraphs 1-18.

SPECIFIC REQUIREMENTS

AJ ID: 1253 - Basell USA Inc - Westlake Facility

Activity Number: PER20080002

Permit Number: 2868-V1

Air - Title V Regular Permit Renewal

UNF0003 Cogeneration Plant

- 98 [LAC 33:III.517.E] In addition to those elements listed under LAC 33:III.517.D, include in each application pertaining to a Part 70 source the information specified in LAC 33:III.517.E, Subparagraphs 1-8.
 - 99 [LAC 33:III.517.G] Submit change of ownership notification in accordance with LAC 33:I.Chapter 19.
 - 100 [LAC 33:III.523.A] Submit permit modification application: Due within 45 days of obtaining relevant test results. The permit modification or amendment shall include all information necessary to process the request, and is required if testing demonstrates that the terms and conditions of the existing permit are inappropriate or inaccurate.
 - 101 [LAC 33:III.523.B.2] Submit application for temporary exemption for testing: Due prior to test initiation. Submit the information specified in LAC 33:III.517 (with the exception of the data being measured in the test). Conduct testing for the minimum duration consistent with obtaining valid results.
 - 102 [LAC 33:III.523.B.3] Submit test results: Due within 30 days of test completion to the administrative authority. The report details the conditions that were found to exist during a temporary exemption for testing. State if there is to be no permanent change in emissions from pretest conditions.
 - 103 [LAC 33:III.5609.A.1.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 5 when the administrative authority declares an Air Pollution Alert.
 - 104 [LAC 33:III.5609.A.2.b] Activate the preplanned strategy listed in LAC 33:III.5611. Table 6 when the administrative authority declares an Air Pollution Warning.
 - 105 [LAC 33:III.5609.A.3.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 7 when the administrative authority declares an Air Pollution Emergency.
 - 106 [LAC 33:III.5609.A] Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency.
 - 107 [LAC 33:III.5901.A] Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611. Tables 5, 6, and 7.
 - 108 [LAC 33:III.5907] Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.
 - 109 [LAC 33:III.5911.A] Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.
 - 110 [LAC 33:III.5911.C] Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III.Chapter 59, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Office of Environmental Compliance.
 - 111 [LAC 33:III.919.D] Submit amended registration: Due to the Office of Environmental Compliance within 60 days after the information in the submitted registration is no longer accurate.
- Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.